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## IN THE CLAIMS:

- 1. (Previously Presented) An apparatus for downhole production or injection wells, comprising:
  - a) one or more downhole production or injection wells; and
  - b) a control system comprising:
    - i) one or more surface control and data acquisition systems;
- ii) one or more sensors disposed in communication with the surface control and data acquisition systems;
- iii) one or more downhole devices disposed in communication with the surface control and data acquisition systems; and
- iv) one or more remote controllers disposed in communication through a server with the surface control and data acquisition systems, wherein the one or more remote controllers may reprogram a processor of the one or more surface control and data acquisition systems.
- 2. (Original) The apparatus of claim 1 wherein the downhole devices comprise one or more devices selected from the group of smart shunt screens, sliding sleeves, chemical injection devices, circulating valves, gas lift valves, water injection valves, smart screens chokes, diverters, flappers, safety valves, and packers.
- 3. (Original) The apparatus of claim 1 wherein the downhole devices are disposed in communication with one or more components of the one or more downhole production or injection wells.
- 4. (Original) The apparatus of claim 1 wherein the downhole devices are disposed in communication with one or more sensors of the control system.
- 5. (Original) The apparatus of claim 1 wherein the one or more sensors comprise one or more permanent downhole sensors.

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- The apparatus of claim 1 wherein the one or more sensors 6. (Original) comprise one or more retrievable sensors.
- The apparatus of claim 1 wherein the control system comprises an 7. (Original) electric control system.
- The apparatus of claim 1 wherein the downhole production well 8. (Original) comprises an artificial lift system disposed in cooperation with the downhole well.
- The apparatus of claim 8 wherein the artificial lift system includes a 9. (Original) programmable automation control system.
- The apparatus of claim 8 wherein the artificial lift system includes 10. (Original) one or more surface sensors disposed to monitor operation of the artificial lift system.
- The apparatus of claim 8 wherein the artificial lift system includes 11. (Original) one or more sub-surface sensors disposed to monitor operation of the artificial lift system.
- The apparatus of claim 8 wherein the control system comprises an 12. (Original) electric control system.
- The apparatus of claim 1, further comprising: 13. (Previously Presented) a retrievable pump system disposed in cooperation with the downhole production or injection well.
- The apparatus of claim 13 wherein the retrievable pump system 14. (Original) comprises sensors.

- 15. (Original) The apparatus of claim 13 wherein the retrievable pump system is deployed by a component selected from the group consisting of coil tubing, electric line, hydraulic pumping, and wire line.
- 16. (Original) The apparatus of claim 15 wherein the retrievable pump system is connected to one or more communication control member selected from the group of fiber optic lines, fluid pumping lines, electric lines and wireless components.
- 17. (Original) The apparatus of claim 13 wherein the retrievable pump system comprises one or more pumps selected from the group consisting of an electric submersible pump, a linear motor drive pump, an impeller driven pump, a progressive cavity pump, a gas lift, a rod pump and a jet pump.
- 18. (Original) The apparatus of claim 17 wherein the electric submersible pump is disposed in electrical connection with one or more wet connects disposed inside a production tubing of the downhole production well.
- 19. (Original) The apparatus of claim 17 wherein the electric submersible pump is disposed in electrical connection with an inductive coupler connected to the control system.
- 20. (Previously Presented) The apparatus of claim 1 wherein the control system further comprises:
- a communication device disposed between the server and the one or more surface control and data acquisition systems.
- 21. (Original) The apparatus of claim 20 wherein the communication device comprises one or more devices selected from the group of a telephone system, a satellite system, an internet system, and a radio system.

- The apparatus of claim 1 wherein the remote 22. (Previously Presented) controller comprises a computer having an internet access.
- The apparatus of claim 22 wherein the control system 23. (Previously Presented) further comprises:

a satellite system adapted to link signals between the server and the surface control and data acquisition system.

- An apparatus for downhole production or injection, 24. (Previously Presented) comprising:
  - one or more completed electrically controlled wells; a)
- one or more artificial lift systems incorporated in the one or more b) completed wells; and
  - a control system comprising: c)
    - one or more surface control and data acquisition systems; i)
- one or more formation sensors disposed in communication with the ii) surface control and data acquisition systems;
- one or more devices of the artificial lift system disposed in (iii communication with the surface control and data acquisition systems; and
- one or more remote controllers disposed in communication through a server with the surface control and data acquisition system, wherein the one or more remote controllers may reprogram a processor of the one or more surface control and data acquisition systems.
- The apparatus of claim 24 wherein the one or more artificial lift 25. (Original) systems comprises one or more surface sensors and one or more sub-surface sensors.
- The apparatus of claim 24 wherein the one or more artificial lift 26. (Original) systems comprise one or more programmable automation control systems.
- 27. (Previously Presented) The apparatus of claim 24, further comprising:

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a retrievable pump system disposed in cooperation with the electrically controlled well.

- The apparatus of claim 27 wherein the retrievable pump system is 28. (Original) deployed by a component selected from the group consisting of coil tubing, electric wire line, hydraulic pumping, and wire line.
- The apparatus of claim 28 wherein the retrievable pump system is 29. (Original) connected to one or more control lines selected from the group consisting of fiber optic lines, fluid pumping lines, and electric lines.
- The apparatus of claim 27 wherein the retrievable pump system 30. (Original) comprises one or more pumps selected from the group consisting of an electric submersible pump, a linear motor drive pump, an impeller driven pump, a progressive cavity pump, a gas lift, a rod pump and a jet pump.
- The apparatus of claim 30 wherein the retrievable pump system is 31. (Original) disposed in electrical connection with one or more wet connects disposed inside a production tubing of the downhole production well.
- The apparatus of claim 24, further comprising: 32. (Previously Presented)
- a communication device disposed between the server and the one or more surface control and data acquisition systems, wherein the communication device comprises one or more devices selected from the group of a telephone system, a satellite system, an internet system, and a radio system.
- 33. (Previously Presented) The apparatus of claim 24 wherein the remote controller comprises a computer having an internet access.
- 34. (Previously Presented) The apparatus of claim 33 further comprising:

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a satellite system adapted to link signals between the server and the one or more surface control and data acquisition systems.

## 35-41. (Cancelled)

A method for monitoring and controlling a production 42. (Currently Amended) or injection well or oilfield, comprising:

transmitting data collected by a downhole sensor module in the production or injection well or oilfield to a surface control and data acquisition system;

evaluating downhole operating conditions and optimizing downhole operating parameters utilizing an optimization software program disposed in communication with the control and data acquisition system; and

transmitting signals between the control and data acquisition system and a remote controller through a server utilizing a communication system, the remote controller comprising a computer having an internet access, wherein the remote controller sends commands via the internet access to the control and data acquisition system to change parameters inside the control and data acquisition system and the remote controller may reprogram a processor of the control and data acquisition system.

- 43. (Previously Presented) The method of claim 42, further comprising: storing data collected by the downhole sensor module in a memory storage in the control and data acquisition system.
- 44 The method of claim 42, further comprising: (Previously Presented) collecting operational data utilizing one or more surface sensors connected to the control and data acquisition system.
- 45. (Previously Presented) The method of claim 42 wherein the control and data acquisition system utilizes a satellite link to transfer data via satellite to the server.

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- 46. (Previously Presented) The method of claim 42 wherein the commands to the control and data acquisition system modifies operation of a downhole pump.
- 47. (Original) The method of claim 42 wherein the control and data acquisition system provides on-site access to data and control of operation parameters.
- 48. (Original) The method of claim 42 wherein one or more control modules are disposed inside the wellbore to control the flow of fluids in the wellbore to optimize downhole component efficiency.
- 49. (Original) The method of claim 42 wherein the downhole sensors are connected to the control and data acquisition system through a hydraulic line or an electric line deployed from the surface into the wellbore.
- 50. (Previously Presented) The method of claim 42 wherein the remote controller is adapted to send a command to the downhole sensor module through the server via satellite communications.
- 51. (Original) The method of claim 42 wherein the downhole sensor module is connected to the control and data acquisition system utilizing digital or analog communication techniques.
- 52. (Original) The method of claim 42 wherein the downhole sensor module is connected to the control and data acquisition system utilizing one or more communication members selected from the group of electrical cables, fiber optic cables, hydraulic devices, electromagnetic devices, earth conduction devices, and acoustic devices.
- 53. (Original) The method of claim 42 wherein the control and data acquisition system is adapted to control amount of chemicals delivered inside the wellbore.

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- The method of claim 42 wherein the control and data acquisition 54. (Original) system is adapted to monitor and control steam injection into the wellbore.
- The method of claim 42 wherein the control and data acquisition 55. (Original) system is adapted to monitor and control formation influx.
- The method of claim 42 wherein the control and data acquisition 56. (Original) system is adapted to monitor and control water influx.
- 57. (Currently Amended) An apparatus for performing a well service operation, comprisina:
  - a tool body locatable in a production or an injection well;
  - a sensor for sensing a parameter relating to a function of the tool body;
  - a surface controller for adjusting the function of the tool body;
  - a data acquisition system in communication with the sensor; and
- a server in communication with the controller and the data acquisition system, the server in communication with a remote controller disposed in a location remote from the tool body, wherein the remote controller communicates with the controller and the data acquisition system through the server via the internet and the remote controller may reprogram a processor of the surface controller and the data acquisition system.
- 58. (Previously Presented) The apparatus of claim 57, further comprising:
- a communication device disposed between the server and at least one of the controller and the data acquisition system.
- 59. wherein (Previously Presented) The apparatus of claim 58 the communication device comprises an internet system.
- 60. (Cancelled).

The apparatus of claim 57 wherein the tool body 61. (Previously Presented) comprises one or more devices selected from smart shunt screens, sliding sleeves, chemical injection devices, circulating valves, gas lift valves, water injection valves, smart screens chokes, diverters, flappers, safety valves, and packers.

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- The apparatus of claim 57 wherein the tool body 62. (Previously Presented) comprises a retrievable pump system.
- 63. (Previously Presented) The apparatus of claim 62 wherein the retrievable pump system is connected through at least one of fiber optic lines, fluid pumping lines, electric lines and wireless components.
- 64. The apparatus of claim 62 wherein the retrievable (Previously Presented) pump system comprises one or more pumps selected from the group consisting of an electric submersible pump, a linear motor drive pump, an impeller driven pump, a progressive cavity pump, a gas lift, a rod pump and a jet pump.
- 65. (Currently Amended) An apparatus for controlling and monitoring one or more production or injection wells, comprising:

one or more surface control and data acquisition systems;

one or more sensors disposed in communication with the one or more control and data acquisition systems;

one or more downhole devices disposable in the one or more production or injection wells and disposed in communication with the one or more control and data acquisition systems; and

one or more remote controllers disposed in communication through a server with the one or more surface control and data acquisition systems, wherein the remote controller is adapted to control the one or more downhole devices by sending commands via the internet to the server and the remote controller may reprogram a processor of the surface control and data acquisition system.

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- The apparatus of claim 65, further comprising: (Previously Presented) 66.
- a communication device disposed between the server and the one or more surface control and data acquisition systems.

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- 66. wherein the claim (Previously Presented) The of 67. apparatus communication device comprises one or more devices selected from the group of a telephone system, a satellite system, an internet system, and a radio system.
- The apparatus of claim 65, further comprising: 68. (Previously Presented) a satellite system adapted to link signals between the server and the one or more surface control and data acquisition systems.
- The apparatus of claim 65, wherein the sensors 69. (Previously Presented) comprise one or more permanent downhole sensors.
- The apparatus of claim 65, wherein the sensors (Previously Presented) 70. comprise one or more retrievable downhole sensors.
- The apparatus of claim 2, wherein the smart shunt (Previously Presented) 71. screen comprises:
  - a rotatable tubular member having a plurality of inlet ports; and
- a fixed tubular member having a corresponding number of inlet ports as the rotatable tubular portion.
- The apparatus of claim 71, wherein the rotatable 72. (Previously Presented) tubular member and the fixed tubular member are coaxially disposed relative to each other.
- The apparatus of claim 72, wherein inlet ports of the (Previously Presented) 73. rotatable tubular member and the fixed tubular member are aligned when the smart shunt screen is in an open position.